

Paratype at Division of Biological Control, University of California, Berkeley.

SUMMARY

As presently constituted, the genus *Brachygrammatella* consists of five species. Four are from Queensland without host records and one is from South Africa associated with the eggs of the hemipteron, *Batrachomorpha capeneri*. Two new species are described, namely *Brachygrammatella ventralis* Doutt and *B. salutaris* Doutt. The species *B. dubia* (Girault) is a synonym of *B. perplexa* (Girault).

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LITERATURE CITED

DOUTT, R. L. AND G. VIGGIANI. 1968. The classification of the Trichogrammatidae (Hymenoptera: Chalcidoidea). Proc. Calif. Acad. Sci. (*in press*).

Two New Species of *Eristalis* Latreille from Western North America

(Diptera : Syrphidae)

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This paper deals with two new species of *Eristalis* Latreille from Western North America. The types will be deposited in the California Academy of Sciences.

Eristalis californicus Nayar and Cole, new species

(Figs. 1, 2)

FEMALE.—Length, 11.54 mm. Wing length, 9.54 mm. Eyes dark-brown with a longitudinal stripe of dense yellow hair along inner border. Vertex and ocellar triangle brownish-yellow; sparsely pubescent. Occipital pile shining yellow. Frons with sides parallel up to about half way from vertex to antennae, widening gradually about one-third width of head at level of antennae; facial stripe broad, brownish and bare. Face produced into a rounded, shining low tubercle. Frons and face covered with long, whitish-yellow pile. Antennae short; first and second segments brownish; third dark-brown with basal grayish margin; arista orange; bare.

Thorax shining with brownish hue, without stripe, sides yellowish with blackish tinge from humeral calli to scutellum; yellowish pollinose. Pleurae brownish-yellow; yellow pile. Legs orange-yellow; coxae and trochanters brownish-yellow; femora at base with long, oval patch of short, black bristles imparting black

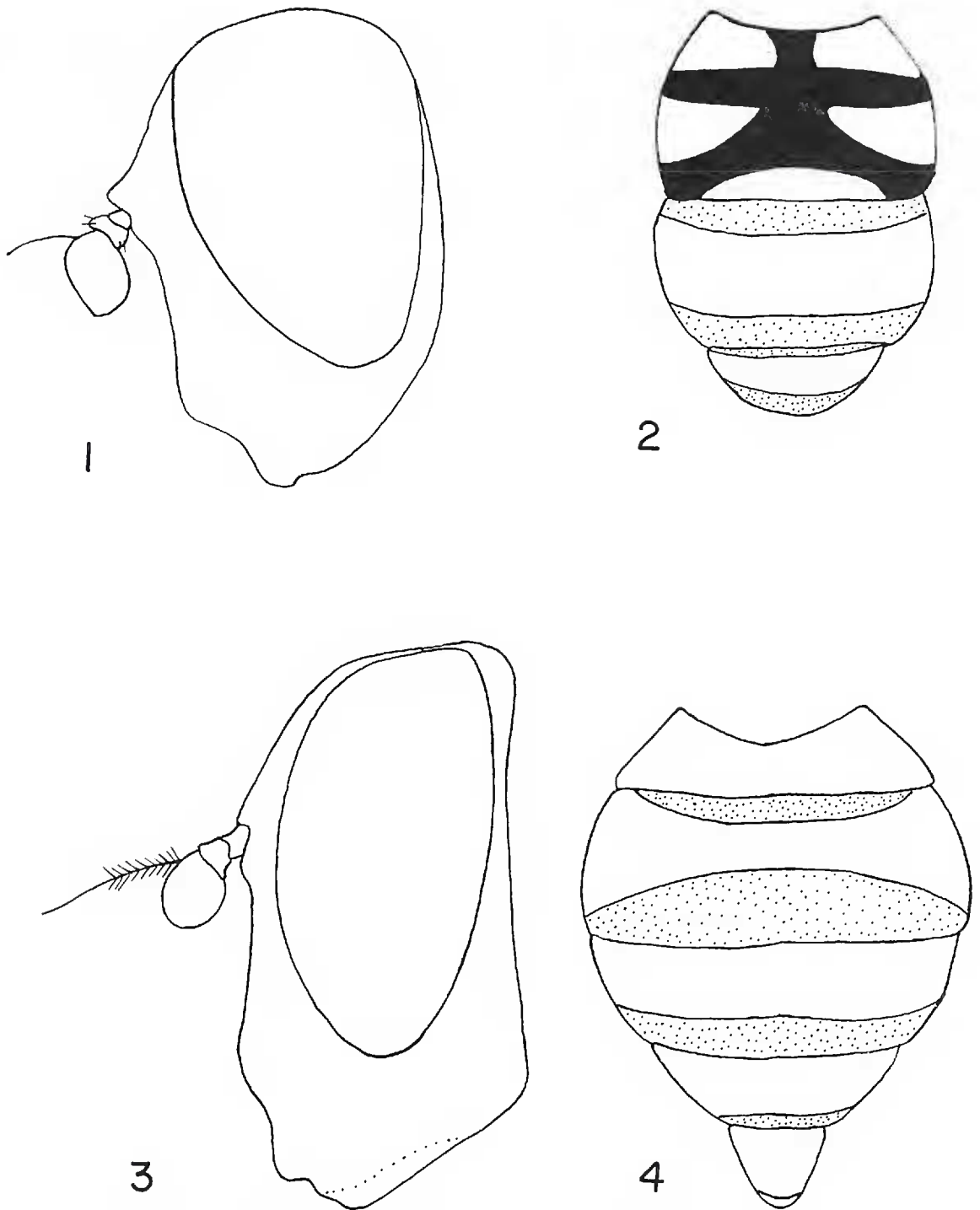


FIG. 1. *Eristalis californicus* Nayar and Cole, profile of head of female. FIG. 2. *Eristalis californicus* Nayar and Cole, abdomen, female. FIG. 3. *Eristalis vandykei* Nayar and Cole, profile of head of female. FIG. 4. *Eristalis vandykei* Nayar and Cole, abdomen, female.

tinge to region; fore and mid-tibiae at apical one-fourth, hind tibiae at apical third and tarsi brownish; yellowish pile on legs, tarsal segments with interspersed, sparse, short, black setae. Wings hyaline with yellow tinge; stigma, squamae and halteres yellow.

Abdomen brownish-yellow; first segment yellow with median, light brownish, wide stripe occupying about one-fifth width of segment; second segment with pair of triangular, lateral yellow spots, basal and sub-apical brown bands complete, joined medially by wide light brown stripe, running about one-third width of

segment, wide posterior border yellow; third and fourth segments with extremely wide, brown cross-bands medially, anterior and posterior bands narrow and whitish-yellow; fifth segment with apical, narrow, yellow margin; shining, long, yellow pubescence along borders of segments and small brownish hairs on dorsum of abdomen.

Holotype female.—REDLANDS, CALIFORNIA, 1913 (F. R. Cole).

The single vertical band of hair on eyes, a patch of short, black setae on base of femora and band pattern of abdomen should make this distinct species easily recognizable from *Eristalis nemorum* (Linn.).

***Eristalis vandykei* Nayar and Cole, new species**

(Figs. 3, 4)

FEMALE.—Length, 12.61 mm. Wing length, 10.15 mm. Eyes with indistinct vertical band of grayish-yellow pubescence running about two-thirds length from vertex towards base. Ocellar triangle black with brownish ocelli; long, black pile. Frons blackish from vertex to antennal bases, upper half shining and lower part dull; triangular area from base of antennae to eye margins with short yellow pile and whitish tomentum underneath. Antennal prominence blackish-brown at basal half, shining yellowish terminally, covered with long yellow pile basally and bare apically. Face nearly twice as wide as frons at vertex, shining, light grayish-yellow; yellow pubescent up to median less prominent central bump; facial median stripe yellow basally, brownish terminally; sparsely hairy and dusted brownish apically. Cheeks and mouth border shining black; bare except extreme outer border with long yellow pile. First and second segments of antennae shining black; third segment and arista brownish; arista plumose at basal half.

Thoracic dorsum and pleurae black; without vittae on mesonotum; thin, yellow pile dorsally and dense along lateral borders. Scutellum concolorous with mesoscutum basally but brownish towards tip, covered with dense, yellow pile. Legs black; tips of femora, anterior one-third of hind femur, basal half of fore-tibiae, anterior two-thirds of mid-tibiae, basal half of hind tibiae, metatarsi and second tarsomere of all legs yellow or brownish-yellow; pile yellowish on yellow areas and blackish on black parts and a patch of rounded oval, black, short bristles at bases of femora. Wings hyaline, prominent brown spots basally and medially; stigma dark-brown; halteres pale-yellow; squamae whitish-yellow with concolorous fringe.

Abdomen black, longer than thorax, narrowing gradually posteriorly; first segment grayish with concolorous pile; second segment with two dark, opaque bands, posterior wider than anterior; third and fourth segments with only posterior, dark, opaque band and fifth segment with narrow, posterior yellow margin; small, black hairs dorsally and yellow pile along lateral borders.

Holotype female.—LONGS PEAK INN, COLORADO, 12 July 1926 (E. C. Van Dyke). 1 paratype with similar data but collected on 13 July 1926.

The species comes close to *Eristalis arbustorum* Linn. in the basal joint of middle tarsi being yellowish but stands distinct in the markings of the wings and abdomen.